

## **BINDER VIEW POCKET**

丁巳年正月

## BACKGROUND OF THE INVENTION

This application is a continuation of commonly assigned United States patent application serial No. 08/763,551, now abandoned, which is a continuation of commonly assigned United States patent application serial No. 08/197,217, filed Feb. 16, 1994, now abandoned.

This invention relates to pockets for holding a single or a small batch of sheets of paper, and particularly to the construction of an enclosure which provides "direct write" storage and access for a top leaf enclosed therein, where one entry lip of the pocket is on a border of one edge of the pocket forming a "book edge" for retaining the margin side of a leaf, and dual corner tab pockets are on the opposing edge's corners for retaining one or both corners opposing the margin edge of said leaf, thereby allowing the secure entry of one or more leaves therein, allowing the encoding of the sequence position of the leaf when placed therein as to a place in either "last in first seen" or "last in last seen" position, offering secure sequential viewing along the book edge when the ends secured under the corner tabs are both free, and providing for direct writing on the surface of the top leaf when the pocket is laid face up.

filed 12/10/96

gts

Small count multi-sheet pockets have been available which are formed with "picture tab" corners. Preferably for storing single sheets, small batches of sheets may be stored within them. In these types of pockets, the leaf is tucked under the corners and retained. This technique is used for pictures in a photo album. In addition, pockets with a strip edge on either side are used with similar success for holding single or small batches of sheets as seen on the panel of a book cover used as a menu or for retaining note cards, typically in a pocket size format. These pockets do not provide a book edge in combination with two corner tab pockets, and consequentially cannot provide for both secure sequential turning and the capability for placement marking as to last in first seen or last in last seen.

The pocket according to the invention provides a secure binding edge on the margin side of the leaf that is an elongated band that spans the complete margin of the host leaf and is enclosed to provide secure storage along that edge as well as to allow the temporary attachment of multiple leaves when the opposing edges are free and the leaves are turned as a mini-book. The dual corners provide secure storage for the leaf when both corners opposing the margin are enclosed thereunder, and offers a way to mark the chronological relationship of a leaf to a batch of leaves when one corner is left untucked. The untucked "state" is a sign that the leaf has been put in the order "last in first seen" and the dual tucked position is a sign that the leaves are all in chronological order "last in last seen." Of course, the opposite encoding can be used where one always stacks for the objective of "last in last seen" and always tucks both corners. Any of the currently known pocket styles can support this as well. If, however, one wants to always keep the stack referential in chronological order of capture, and this is the intended semi-permanent state of storage of a leaf, and uses the pocket configuration for only temporarily holding pages out of order, in a temporary state (one corner untucked) until properly placed in chronology (marked by being placed below the batch of leaves with both corners tucked) then a pocket of the kind in this invention is necessary. The advantage offered by the combination of bindings further ensures that all the leaves are secure from adhoc dislocation, whether encoded and placed in "temporary" or semi-permanent holding position. Unbinding the upper corner or lower corner leaves that corner of the leaf or leaves free to "peel". Unbinding both tucked corners allows for mini-

book turning of all of the leaves which are each held along the "book binding edge". The top surface can sustain direct writing on the entire writing surface thereof. A small batch, secure locking pocket, with multiple sheet interrogation at a corner, and further having direct write on for the top leaf has been unavailable.

The advantage of the bookbinding pocket of this invention is the ability to construct the device on high speed folder/gluer equipment. Forming the pocket where the glue lines are parallel and where the glue on both parallel edges can be applied at the same location in the production line, at the same time, on opposing edges is an advantage in cost reduction to the production. The pattern employed in this configuration minimizes material waste while permitting the formation of the opposing pocket sets without requiring that the pocket pattern be flipped over.

The advantage of sealing the portion of the binding edge where a pattern of removable holes is positioned permits the formation of a removable hole with the added strength of the bonded material surrounding it. This lets the hole be reused many times without fatiguing.

A slice cut in the margin band permits one half page flipping forward of a stack of retained leaves while retaining the page turning property of the original book binding edge.

The use of slots to hold a refillable label strip permits relabeling of the pocket and reuse without permanently marking the pocket as would the corner tab label insert or the provision of a corner with a cut out so that the top sheet could be labeled and viewed through the cut out.

Forming the book binding pocket with a window adapter or integrally sectioning out a portion of a window adapter from the pocket itself allows the pocket to be attached to a number of different host products.

## **SUMMARY OF THE INVENTION**

The invention therefore relates to pockets, and in particular to a pocket capable of grouping a single leaf or a small batch of leafs, where the binding edge for holding the margin is an enclosed band of a length substantially the length of the margin of the leaf to be held, and the opposing corners of the pocket provide tabs for tucking the leaf in place, thereby preventing the leaves from being dislodged in an adhoc manner.

The invention further relates to the construction of a pocket of the

above kind where the margin edge of the pocket has a binding means formed with a cut pattern, typically a pattern of holes, to allow one or more of the pockets according to the invention to be combined into a set.

The invention relates to the construction of a pocket where the binding edge that holds the margin is a band of suitable length to securely hold one or more leaves in place so as to permit mini-book turning and shuffling of the leafs one with respect to the other, when the opposing corners of the leaves are all free.

In particular, the invention relates to the construction of a pocket according to the invention, formed from one sheet of flexible material such as card stock, where the cut and fold pattern of the card stock allows for the formation of the complete pocket by a sequence of folds and a sealing step.

The invention relates to the construction of pockets of this kind from any flexible material such as spun olefin(tyvek™/Dupont), polypropelene, vinyl, paper, plastic of other varieties or like and similar substances having a stiffness property ranging from flexible to subtly rigid and being bondable by way of adhesive tabs, electrical bonding, heat sealing, specialty gluing, stapling, and the like.

It is a further object of this invention to provide a pattern of material for forming the pocket which requires the minimum amount of material while requiring only two parallel folding steps and a single parallel sealing step without having to flip the pocket over.

An additional object of this invention is to provide a reinforced binding edge where a reusable, i.e. Reinsertable hole pattern may be placed so that the reinforced binding provides extra life to the insert pattern.

Additionally, folding patterns which hide the tabs are provided as well as a book binding edge that permits 1/2 page forward flipping.

Ways to label the pocket without writing directly on the pocket are also provided for.

The formation of a book binding pocket as an attachable pop out pocket is also provided for. This configuration would be particularly useful for attaching a ream of loose sheets of paper to a host book. The individual top page would also be able to be pulled out, turned over, and reinserted into the pocket, thereby allowing the individual sheets to be written on both sides.

## **BRIEF DESCRIPTION OF THE DRAWINGS**

The above and other objects and advantages of the invention will be apparent from consideration of the following drawings taken to conjunction with the detailed description following these drawings, in which like reference characters are used to refer to like parts and in which:

Fig. 1 Shows the front view of a pocket with three hole punches on the the binding edge, and dual corner pockets for securely holding a leaf, and further shows a leaf peeled at both corners.

Fig. 2 Shows the front view of the pocket with the leaf removed.

Fig. 2a Shows the front view of the pocket with the leaf removed where the pocket is shown to have alternative forms of mini-booking secondary binding structures.

Fig. 2b Shows an alternative corner formed from an elastic band with two clips inserted into respective holes diagonally punched at a distance substantially the length of the elastic band.

Fig. 3 Shows an unfolded view of one form of construction having dual corner tab portions which combine to form a corner pocket and having a band formed from a section of material spanning the height of the base panel and having tab portions and a symmetrical hole pattern for attachment to a host binding.

Fig. 3a Shows an alternative corner construction with a band formed by a strip which is folded over and adhesive attached to the edge of the base panel.

Fig. 4 Shows the unfolded part of one form of construction of the binding edge of the pocket for holding the margin edge of the leaf to be held therein, where the symmetrical hole portion is adhesively attached one side to the other and the band is formed adjacent thereto.

Fig. 5 Shows a perspective view of a host binder in which the pocket according to the invention is shown inserted between the covers of an encasing pocket.

Fig. 6 shows a pattern of a bookbinding pocket that can be formed by a series of steps including a parallel fold, a parallel glue, and subsequent parallel fold requiring only one bump and turn but no flip over.

Fig. 6a shows the result of the first parallel fold and highlights the parallel glue and second parallel fold.

Fig. 6b shows the resulting pocket after the second parallel fold.

Fig. 7 shows a pattern for a reinforcable book binding edge with a reusable hole pattern. The cut out arrow indicates how to remove or

insert.

Fig. 7a shows the pattern of Fig 7 folded over and bonded to form a reinforced hole edge. The pocket portion of the binding edge is retained. Fig. 8 shows a pattern for forming a book binding pocket where the tab edges are hidden and where a minimum of tabs are used.

Fig. 8a shows the pattern of Fig. 8 where the base panel is flipped over on top of the "picture frame" portion of the pocket.

Fig. 8b shows the pattern of Fig 8a after the two fold and glue steps.

Fig. 9 shows an alternative pattern for forming a book binding pocket where the tab edges are hidden and where a minimum number of tabs are used.

Fig. 9a shows the pattern of Fig. 9 where the base panel is flipped sideways onto the "picture frame" portion of the pocket.

Fig. 9b shows the pattern of Fig. 9A after the two fold and glue steps.

Fig. 10 shows a book binding pocket having a slit middle there in.

Fig. 11 shows a book binding pocket having a strip for labeling insertable into the margin portion of the book binding pocket.

Fig. 12 shows a corner tab having a cut out retaining slot and a cut out marking slot.

Fig. 13 shows an insert for a corner like that in Fig. 12 where a lock tab is complemented by a label tab portion.

Fig. 14 shows a corner tab where there is a cut out portion for permitting the direct marking of the top sheet without having to write on the pocket itself.

Fig. 16 shows a book pocket having a construction similar to that of Fig. 6, integrally formed with a mounting support surface, and orientation panel, and an optional extension panel.

Fig. 16a shows the device perspective drawing of Fig. 16 when the pattern is "assembled".

Fig. 17 shows an alternative to the construction of Fig. 16 where the orientation panel is formed from a portion of the base panel.

**DETAILED DESCRIPTION OF THE INVENTION**

Fig. 1 Shows the front view of a pocket, 1, with three holes, 8, punched on the the binding edge having band, 4, and dual corner pockets 32 and 32' formed by tab corners 3 and 3' for securely holding a leaf 20 .

10000  
925000  
924000  
923000  
922000  
921000  
920000  
919000  
918000  
917000  
916000  
915000  
914000  
913000  
912000  
911000  
910000  
909000  
908000  
907000  
906000  
905000  
904000  
903000  
902000  
901000  
900000  
899000  
898000  
897000  
896000  
895000  
894000  
893000  
892000  
891000  
890000  
889000  
888000  
887000  
886000  
885000  
884000  
883000  
882000  
881000  
880000  
879000  
878000  
877000  
876000  
875000  
874000  
873000  
872000  
871000  
870000  
869000  
868000  
867000  
866000  
865000  
864000  
863000  
862000  
861000  
860000  
859000  
858000  
857000  
856000  
855000  
854000  
853000  
852000  
851000  
850000  
849000  
848000  
847000  
846000  
845000  
844000  
843000  
842000  
841000  
840000  
839000  
838000  
837000  
836000  
835000  
834000  
833000  
832000  
831000  
830000  
829000  
828000  
827000  
826000  
825000  
824000  
823000  
822000  
821000  
820000  
819000  
818000  
817000  
816000  
815000  
814000  
813000  
812000  
811000  
810000  
809000  
808000  
807000  
806000  
805000  
804000  
803000  
802000  
801000  
800000  
799000  
798000  
797000  
796000  
795000  
794000  
793000  
792000  
791000  
790000  
789000  
788000  
787000  
786000  
785000  
784000  
783000  
782000  
781000  
780000  
779000  
778000  
777000  
776000  
775000  
774000  
773000  
772000  
771000  
770000  
769000  
768000  
767000  
766000  
765000  
764000  
763000  
762000  
761000  
760000  
759000  
758000  
757000  
756000  
755000  
754000  
753000  
752000  
751000  
750000  
749000  
748000  
747000  
746000  
745000  
744000  
743000  
742000  
741000  
740000  
739000  
738000  
737000  
736000  
735000  
734000  
733000  
732000  
731000  
730000  
729000  
728000  
727000  
726000  
725000  
724000  
723000  
722000  
721000  
720000  
719000  
718000  
717000  
716000  
715000  
714000  
713000  
712000  
711000  
710000  
709000  
708000  
707000  
706000  
705000  
704000  
703000  
702000  
701000  
700000  
699000  
698000  
697000  
696000  
695000  
694000  
693000  
692000  
691000  
690000  
689000  
688000  
687000  
686000  
685000  
684000  
683000  
682000  
681000  
680000  
679000  
678000  
677000  
676000  
675000  
674000  
673000  
672000  
671000  
670000  
669000  
668000  
667000  
666000  
665000  
664000  
663000  
662000  
661000  
660000  
659000  
658000  
657000  
656000  
655000  
654000  
653000  
652000  
651000  
650000  
649000  
648000  
647000  
646000  
645000  
644000  
643000  
642000  
641000  
640000  
639000  
638000  
637000  
636000  
635000  
634000  
633000  
632000  
631000  
630000  
629000  
628000  
627000  
626000  
625000  
624000  
623000  
622000  
621000  
620000  
619000  
618000  
617000  
616000  
615000  
614000  
613000  
612000  
611000  
610000  
609000  
608000  
607000  
606000  
605000  
604000  
603000  
602000  
601000  
600000  
599000  
598000  
597000  
596000  
595000  
594000  
593000  
592000  
591000  
590000  
589000  
588000  
587000  
586000  
585000  
584000  
583000  
582000  
581000  
580000  
579000  
578000  
577000  
576000  
575000  
574000  
573000  
572000  
571000  
570000  
569000  
568000  
567000  
566000  
565000  
564000  
563000  
562000  
561000  
560000  
559000  
558000  
557000  
556000  
555000  
554000  
553000  
552000  
551000  
550000  
549000  
548000  
547000  
546000  
545000  
544000  
543000  
542000  
541000  
540000  
539000  
538000  
537000  
536000  
535000  
534000  
533000  
532000  
531000  
530000  
529000  
528000  
527000  
526000  
525000  
524000  
523000  
522000  
521000  
520000  
519000  
518000  
517000  
516000  
515000  
514000  
513000  
512000  
511000  
510000  
509000  
508000  
507000  
506000  
505000  
504000  
503000  
502000  
501000  
500000  
499000  
498000  
497000  
496000  
495000  
494000  
493000  
492000  
491000  
490000  
489000  
488000  
487000  
486000  
485000  
484000  
483000  
482000  
481000  
480000  
479000  
478000  
477000  
476000  
475000  
474000  
473000  
472000  
471000  
470000  
469000  
468000  
467000  
466000  
465000  
464000  
463000  
462000  
461000  
460000  
459000  
458000  
457000  
456000  
455000  
454000  
453000  
452000  
451000  
450000  
449000  
448000  
447000  
446000  
445000  
444000  
443000  
442000  
441000  
440000  
439000  
438000  
437000  
436000  
435000  
434000  
433000  
432000  
431000  
430000  
429000  
428000  
427000  
426000  
425000  
424000  
423000  
422000  
421000  
420000  
419000  
418000  
417000  
416000  
415000  
414000  
413000  
412000  
411000  
410000  
409000  
408000  
407000  
406000  
405000  
404000  
403000  
402000  
401000  
400000  
399000  
398000  
397000  
396000  
395000  
394000  
393000  
392000  
391000  
390000  
389000  
388000  
387000  
386000  
385000  
384000  
383000  
382000  
381000  
380000  
379000  
378000  
377000  
376000  
375000  
374000  
373000  
372000  
371000  
370000  
369000  
368000  
367000  
366000  
365000  
364000  
363000  
362000  
361000  
360000  
359000  
358000  
357000  
356000  
355000  
354000  
353000  
352000  
351000  
350000  
349000  
348000  
347000  
346000  
345000  
344000  
343000  
342000  
341000  
340000  
339000  
338000  
337000  
336000  
335000  
334000  
333000  
332000  
331000  
330000  
329000  
328000  
327000  
326000  
325000  
324000  
323000  
322000  
321000  
320000  
319000  
318000  
317000  
316000  
315000  
314000  
313000  
312000  
311000  
310000  
309000  
308000  
307000  
306000  
305000  
304000  
303000  
302000  
301000  
300000  
299000  
298000  
297000  
296000  
295000  
294000  
293000  
292000  
291000  
290000  
289000  
288000  
287000  
286000  
285000  
284000  
283000  
282000  
281000  
280000  
279000  
278000  
277000  
276000  
275000  
274000  
273000  
272000  
271000  
270000  
269000  
268000  
267000  
266000  
265000  
264000  
263000  
262000  
261000  
260000  
259000  
258000  
257000  
256000  
255000  
254000  
253000  
252000  
251000  
250000  
249000  
248000  
247000  
246000  
245000  
244000  
243000  
242000  
241000  
240000  
239000  
238000  
237000  
236000  
235000  
234000  
233000  
232000  
231000  
230000  
229000  
228000  
227000  
226000  
225000  
224000  
223000  
222000  
221000  
220000  
219000  
218000  
217000  
216000  
215000  
214000  
213000  
212000  
211000  
210000  
209000  
208000  
207000  
206000  
205000  
204000  
203000  
202000  
201000  
200000  
199000  
198000  
197000  
196000  
195000  
194000  
193000  
192000  
191000  
190000  
189000  
188000  
187000  
186000  
185000  
184000  
183000  
182000  
181000  
180000  
179000  
178000  
177000  
176000  
175000  
174000  
173000  
172000  
171000  
170000  
169000  
168000  
167000  
166000  
165000  
164000  
163000  
162000  
161000  
160000  
159000  
158000  
157000  
156000  
155000  
154000  
153000  
152000  
151000  
150000  
149000  
148000  
147000  
146000  
145000  
144000  
143000  
142000  
141000  
140000  
139000  
138000  
137000  
136000  
135000  
134000  
133000  
132000  
131000  
130000  
129000  
128000  
127000  
126000  
125000  
124000  
123000  
122000  
121000  
120000  
119000  
118000  
117000  
116000  
115000  
114000  
113000  
112000  
111000  
110000  
109000  
108000  
107000  
106000  
105000  
104000  
103000  
102000  
101000  
100000  
99000  
98000  
97000  
96000  
95000  
94000  
93000  
92000  
91000  
90000  
89000  
88000  
87000  
86000  
85000  
84000  
83000  
82000  
81000  
80000  
79000  
78000  
77000  
76000  
75000  
74000  
73000  
72000  
71000  
70000  
69000  
68000  
67000  
66000  
65000  
64000  
63000  
62000  
61000  
60000  
59000  
58000  
57000  
56000  
55000  
54000  
53000  
52000  
51000  
50000  
49000  
48000  
47000  
46000  
45000  
44000  
43000  
42000  
41000  
40000  
39000  
38000  
37000  
36000  
35000  
34000  
33000  
32000  
31000  
30000  
29000  
28000  
27000  
26000  
25000  
24000  
23000  
22000  
21000  
20000  
19000  
18000  
17000  
16000  
15000  
14000  
13000  
12000  
11000  
10000  
9000  
8000  
7000  
6000  
5000  
4000  
3000  
2000  
1000  
0

and further shows the leaf, 20, peeled at both corners. Said band 4 is formed to form a pocket 30 where said band has opposing top and bottom ends, 59' and 59", and opposing edges, an inner edge 57 and an outer edge 58, with the top and bottom ends and the outer edge being attached to base panel 1a, thereby leaving edge 57 unattached to form a pocket, the book binding structure. The corner binding edge, 59 has two pockets formed thereon, a top corner pocket 3' and a bottom corner pocket 3. Each triangular corner pocket has two edges attached to the base panel and a free lip 32' and 32 which forms the pocket structure. Corner 22 is shown by motion 24 to be able to be alternatively tucked under corner pocket 32 for "encoding" as to its state of capture. In the preferred use, when one or more leaves have both their corners free and only the margin is held below band 4, the leaves are in mini-book mode for sequential visual scanning, when all leaves have their corners tucked, then the leaves are in chronological sequence, i.e. last in last seen, and when a leaf or leaves have the upper corner untucked, it is in a temporary state of last in first seen and is awaiting shuffling to the bottom of the batch, into last in last seen position. The other leafs of the batch, are below and edge 20', for example has both corners tucked. So, leaves 80,81, and 82 are in chronological order, last in last seen, and leaf 83 is about to be placed in last in first seen position, with its bottom corner tucked and its top corner untucked. Edge 58 is the "book edge" and has a band 4, for securing a batch of leaves. The leaf has a width W1 which is shorter than the pocket width W2 by an amount which permits the formation of a binding region where, holes 8, are formed to enable attachment of the pocket to a host binding. D1 is narrow to allow for cocooning as shown in figure 5. D2 is short to allow for bottom edge indexing of and enclosing cocoon as shown in Figure 5. W1 is the width of a typical leaf and is less than w3, the distance from the tab edges to the holes, 8. W2 is the width of the base panel 1a.

Fig. 2 Shows the front view of the pocket, 1, having back or base panel 1a, with the leaves removed. The band 4 can be sealed onto the back panel 1a. Each material and means for forming the pocket portions would result in a different structural version of the same species of pocket. So corners 3' and 3 can also be made integrally as part of a folding pattern off the base die, can be "welded on", or can be attached as separate mini-tab pockets, for example. If this is done, it is desirable to attach the mini-tab pocket which would be triangular in

shape so that the base panel 1a joins the interior corners of the mini-tab to allow a smooth base panel. The smooth base panel is needed under all pockets so that a first leaf can be slid into the pocket formation without a hitch. The diagonal cuts 44/44' and/or 49/49' are optional.

Fig. 2a Shows the front view of the pocket, '1', with the leaf removed where the pocket is shown to have alternative forms of mini-booking secondary binding structures. Hook cut pattern 8c/8d can be used with an elastic band to group pockets of this type into batches.

Alternatively, one or both of holes 8a/8b could be used with one or two fasteners such as butterfly clips, to group batches of pockets. Either one or both kinds of "secondary binding structures" can be present, or any other similar kind of structure to allow grouping of pockets without a host ring binder, and still be in the scope of this invention.

Fig. 2b Shows an alternative corner formed from an elastic band, 3c, with two clips 3e and 3e' affixed at each end thereof, and inserted into respective holes, 3d' and 3d, diagonally punched at a distance substantially the length of the elastic band, away from each other. The band is stretched to latch over corners of leaves inserted below.

Fig. 3 Shows an unfolded view of one form of construction having dual corner tab portions, 3a'/3b' and 3a/3b which each combine to form the corner pockets. The tabs may be "welded" together to make a triangular pocket or can have adhesive on either portion or both, for attachment. The band, 4 is shown as being formed by folding edge 57 over line 58 to place the holes symmetrically one on top of the other. The holes can be punched after ward. Tabs 9 and 9' have adhesive 61 for bonding the tabs respectively to the back portion of the panel 1a, leaving a pocket, 30, formed thereunder, and forming a band as a section of material spanning the height of the base panel 1a. Each of the tabs has an optional expansion area shown as 91, 93, 94, 55', 55", and 95. The adhesive 61' is used to seal the tabs 3 and 3b' onto 3a and 3a'.

Fig. 3a Shows an alternative corner construction with a band strip 3a'', formed by a strip which is folded over edge 90', and adhesively attached by adhesive 61'' on tab 3b'', to the edge 55a, of the base panel, 1a'. Optional expansion hinge sections 55'', and 55''' allow for the band strip to accept a larger number of leaf corners.

Therefore the corners each have "enclosures" which allow the leaf corners to be held securely but temporarily. The rubber band, strip band, corner pocket die cut patterns each showing examples of corner

enclosures which enclosures may be formed by similar construction and still be within the scope of this invention.

Fig. 4 Shows the unfolded part of another form of construction of the binding edge of the pocket for holding the margin edge of the leaf to be held therein, where the symmetrical hole portion 8" and 8", is adhesively attached with a span of adhesive 63 over the area which folds to form a sealed hole binding strip, from one side to the other and the band is formed adjacent thereto with edge 57' forming the entry lip therefore. Expansion strip 57a' allows for the band to hold a larger number of leaves, where 57a" completes the expansion strip to allow uniform expansion of the band to occur. Here, the tabs have adhesive 61' which attaches to portion of the back panel of 1' at locations 62.

Fig. 5 Shows a perspective view of a host binder, 70, having a bottom edge 71, in which the pocket according to the invention, 1, is shown inserted between the covers of an encasing pocket, 1a and where said distance d2 is set so as to permit the bottom edge of said book edged pocket to be retained substantially offset from said bottom edge of said ring binder. This demonstrates the formation of a cocoon, where the "book binding edged pocket" is categorized by the encasing dual pocket folder. The top or bottom horizontal edge of the binder can be the point of reference for the offset of the horizontal top or bottom edge of the book binding pocket, i.e. indexing of the enclosing cocoon and or the pocket itself can be on the top or bottom edge. The idea is to have the book binding pocket retain a standard leaf batch (typically 8 1/2 by 11 in USA) and still have the pocket, when encased in a cocoon with an index tab fit within the foot print of a closed standard 3 ring binder. The notion of standard is general here and the intention is to have the pocket fit in the foot print of the host binder.

The pocket can be made from a card stock, optionally in colored form where each pocket in a set can be a different color.

The bonding step will depend on the material used. Special adhesive is needed for Tyvek for example. Cardstock can be glued with commonly known adhesives. Plastic material can be chemically bonded, heat treated to bond, or can have its molecules electrically stimulated to bond. In one instance molecules are caused to bond by heat caused from a chemical reaction, and in the others, the process of "melting" bonds the fiber or radio frequency sealing bonds the materials. The result of attaching achieves a common purpose. Instead of tabs 9 and 9', other

methods can be employed as have been detailed. The edge which those tabs close can also be "fastened" by staples, stitching, or other similar methods to close, for example.

The application of this pocket and, in particular, the set of pockets taken together, is to enable a batching of record information about a variety of categories, each pocket according to the invention holds leaves, and where the state of "order" of the leaves in each pocket, can be marked by the manner in which the corners opposing the margin edge of the leaf are positioned with respect to the pockets subpocket portions.

In Fig. 2, optional angle cuts 44/44', and 49/49', allow for the use of this pocket in a ring binder and enable the pocket to miss the ring binder clips any cut pattern may be used to clear the tabs. The use of the book binding pocket within a cocoon, which is set within a ring binder is shown in Fig 5. The hole distances  $d_1$  and  $d_2$  are particularly important for the preferred application of "cocooning". In cocooning, the book binding pocket will be placed within another enclosing pocket. The enclosing pocket will be retained in a standard ring binder of any ring dimension. Therefore, the offset distance  $d_1$  should be "narrow", allowing for retention of the pocket array as close to the ring binder as possible. Reinforcing the holes may be desirable to allow for the shortest realistic distance  $d_1$ . Further  $d_2$  should be set to permit the bottom edge of the pocket 40 to reside on order of 1/2" from the bottom of the host ring binder. For this reason, 44/44' is slit to permit the top corner to turn freely past a host ring binders clips when present. The cocooning construction is fundamental to the application of this pocket configuration in what we are calling "Demand Paging" where one carries or moves around a set of leaves of paper which are related to "current transactions" and the objective for portability achieves the "10/90" rule where 10% of the "mission critical" information you need is available to you 90% of the time, in the cocoon configuration you have at your finger tips at that moment.

Demand paging allows leaves to move through the cocoon, and in particular the book binding pocket on an as needed basis, where as records recorded on the leaves"age" they can be moved in batches , retained in their respective book binding pocket, to a respective archive for referential access. This movement can be effected by either lifting out the batches of leaves from the book binding pocket, or taking the

TECHNICAL DRAWING  
FIGURE 6

book binding pocket with its leaves enclosed, and archiving the pocket batch. In the first case, demand paging occurs by shuffling the batch out of its pocket and performing a secondary binding operation. In the [former]later case, the pocket is detached from its primary binding and attached in some fashion whether by piling or some other form of more secure binding, to a secondary binding.

An additional group of preferred embodiments and alternative embodiments now follow. In figure 6, strip 102 and corner tabs 103 and 103' are folded over. Glue beads 110,111,110', and 111' are dropped and panel tabs 100, 101 and 100', 101' are folded over onto the glue and sealed. This formation is ideal for construction in paper board, where the glue is similar to a hot melt glue, and where the pattern is plow folded on opposing edges, bumped and turned, then glued and plow folded in line. Strip 102 forms the book binding edge. Tab portions such as 100 are visible on the front face of the pocket. Hole 106 on the backing panel is slightly oversized to compensate for any tolerance in folding if the holes are in the die. If the holes are punched, this type of formation is not applicable. The tab 5 may be glued in the alternative pattern thereby hiding the tabs. This would be done in such a way to prevent impedance to sheet insertion. Recessed tabs would allow this.

Fig. 7 has a hole pattern 66,66',67 formed in a portion of the book binding edge reinforced by adhesive 68. When folded over, adhesive 68 forms a reinforcing strip portion while leaving the pocket portion 69 open.

Fig. 8 uses picture frame portion tabs 202,203, and 204 to form a set of hidden folds using only 3 glue strips. The panel 200 is flipped up on top of the frame and the glue is applied and the tabs folded and sealed. Alternatively, RF or other bonding means can be employed depending on the material used.

Fig. 8A shows glue portions 208, 209, and 210. Figure 8b shows the completed pocket 211.

In Fig. 9, the formation is similar to Fig. 8 except that the panel is folded over the margin binding strip edge. Panels 255, 254, and 253 are folded over onto adhesive portions 259, 260, and 261. Fig 9b shows the back portion of pocket 252 with three folded and hidden tabs.

In Fig. 10, margin binding strip edge 270' is formed in two substantially adjacent portions 270 and 271. Slot 270" can be made larger while still retaining the properties of holding down the margin

band having dimensions including a predetermined height and a predetermined width said predetermined width substantially the sum of a binding region of said book binding structure and the width of the margin portion of a leaf to be held within, said predetermined height substantially spanning said book edge, for holding said margin portion of said leaf thereunder, said band being closed along three sides and further having perimeter features including opposing top and bottom ends, a top tab portion, a bottom tab portion, and opposing inner and outer edges, said band being attached to said base panel along a first coterminous edge formed by said book edge of said base panel and said outer edge of said band, said band further being attached along a second and a third edge, said top end and said bottom end, wherein said band attached to said base panel along said top end and said bottom of said band is attached at said top end and said bottom end of said base panel by means of said top and said bottom tab portions, where said top band end is adhesively attached by said top tab structure to said base panel, said attachment forming a permanent closure between said base panel and said band top end and further, said band is adhesively attached at said bottom end by means of said bottom tab structure, said attachment forming a permanent closure between said base panel and said band bottom end, for forming a first enclosed pocket between said band and said base panel, said first enclosed pocket so formed being open along said inner edge of said band, and wherein, said first enclosed pocket further comprises a binding region comprising a plurality of holes set a predetermined distance from said book edge, said plurality of holes further being placed a predetermined distance from said corner pocket edge, such that when a leaf is placed in said book binding pocket with a first edge of said leaf substantially coterminous with said corner pocket edge, said predetermined distance of said plurality of holes from said corner pocket edge is greater than said predetermined width of said leaf for holding, said book binding pocket further comprising

at least one of a top and bottom corner pockets formed on adjoining corners of said base panel along said corner pocket edge, said each of said at least one of said top and bottom corner pockets having three edges including two adjacent edges attached to said base panel and an open lip edge there between for forming each corner pocket closed along said two adjacent edges and open along said open lip edge,

such that when said leaf for holding in said book binding pocket is

inserted therein for holding, with the edge of said leaf opposing said margin edge of said leaf, tucked into at least one of said corner pockets, with said leaf edge opposing said leaf margin edge substantially adjacent said corner pocket edge, said leaf margin edge is contained under said band with said plurality of holes remaining unobstructed by said margin edge of said leaf, said plurality of holes thereby permitting attachment there through to a host ring, such that said leaf has secure entry in said book binding pocket within said book binding structure and at least one of said corner pockets, with said leaf face surface substantially exposed and accessible for direct writing, for turning as a page in a book from the edge opposing the leaf margin edge when such edge is relieved from said corner pocket, and for continuous shuffling one leaf below the next into the book binding pocket without having to open the rings of a binder when said book binding pocket is so contained by a ringed binder through its plurality of holes.

卷之三

-- 2. A binder pocket for a ring binder, for viewing leaves which may be held within by using a book like page turning operation, said binder pocket therefore a book binding pocket, said book binding pocket formed from a single sheet of flexible, foldable material, for holding a leaf having a set of perimeter features including opposing top and bottom height edges and opposing side width edges, a predetermined height, a predetermined width, said leaf further comprising a margin portion along one of said width edges as well as a face surface for writing on, said book binding pocket comprising:

a base panel, substantially rectangular, having perimeter features including opposing corners, opposing height edges, opposing width edges, said opposing width edges comprising a book edge and a corner binding edge, a predetermined base panel height, and a predetermined base panel width, said predetermined base panel width being said pocket width,

said base panel further having a book binding structure formed along said book edge wherein, said book binding structure comprises a band having dimensions including a predetermined height and a predetermined width said predetermined width substantially the sum of a binding region of said book binding structure and the width of the margin portion of a leaf to be held within, said predetermined height substantially spanning said book edge, for holding said margin portion of said leaf thereunder, said band being closed along three sides and further

卷之三

having perimeter features including opposing top and bottom ends, and opposing inner and outer edges, said base panel further comprising a top tab portion and a bottom tab portion said top tab portion being attached to said base panel along said base panel top height edge substantially at said book edge, said bottom tab portion being attached to said base panel along said base panel bottom height edge substantially at said book edge, said band being attached to said base panel along a first coterminous edge formed by said book edge of said base panel and said outer edge of said band, said band further being attached along a second and a third edge, said top end and said bottom end, wherein said band attached to said base panel along said top end and said bottom of said band is attached to said top height end and said bottom height end of said base panel by means of said top and said bottom tab portions, where said top band end is adhesively attached at said top end to said base panel by said base panel top tab structure, said attachment forming a permanent closure between said base panel and said band top end and further, said bottom band end is adhesively attached at said bottom end by means of said base panel bottom tab structure, said attachment forming a permanent closure between said bottom band end and said base panel bottom end, for forming a first enclosed pocket between said band and said base panel, said first enclosed pocket so formed being open along said inner edge of said band, and wherein, said first enclosed pocket further comprises a binding region comprising a plurality of holes set a predetermined distance from said book edge, said plurality of holes further being placed a predetermined distance from said corner pocket edge, such that when a leaf is placed in said book binding pocket with a first edge of said leaf substantially coterminous with said corner pocket edge, said predetermined distance of said plurality of holes from said corner pocket edge is greater than said predetermined width of said leaf for holding, said book binding pocket further comprising

at least one of a top and bottom corner pockets formed on adjoining corners of said base panel along said corner pocket edge, said each of said at least one of said top and bottom corner pockets having three edges including two adjacent edges attached to said base panel and an open lip edge there between for forming each corner pocket closed along said two adjacent edges and open along said open lip edge,

such that when said leaf for holding in said book binding pocket is inserted therein for holding, with the edge of said leaf opposing said

margin edge of said leaf, tucked into at least one of said corner pockets, with said leaf edge opposing said leaf margin edge substantially adjacent said corner pocket edge, said leaf margin edge is contained under said band with said plurality of holes remaining unobstructed by said margin edge of said leaf, said plurality of holes thereby permitting attachment there through to a host ring, such that said leaf has secure entry in said book binding pocket within said book binding structure and at least one of said corner pockets, with said leaf face surface substantially exposed and accessible for direct writing, for turning as a page in a book from the edge opposing the leaf margin edge when such edge is relieved from said corner pocket, and for continuous shuffling one leaf below the next into the book binding pocket without having to open the rings of a binder when said book binding pocket is so contained by a ringed binder through its plurality of holes.

TOP SECRET - 2025/2020

substantially adjacent portions 270 and 271. Slot 270" can be made larger while still retaining the properties of holding down the margin edge of leafs retained.

Fig. 11 has slots 273 and 273' receiving label strip 274.

5 Fig. 132 has lock slot 281 receive lock table 281' of Fig 13, and label slot 282 receive label portion 282' of 280'. One slot may be used or 2 label slots may be used.

10 Fig. 14 features a cut out portion 286 in corner 285. This can be done on top and or bottom corners and on any portion of the corner pocket to permit "write through labeling" directly onto the portion of the face sheet retained thereunder.

J 5 In fig. 16, and integral section of panels 281 and 292 and optionally 293 are formed off backing panel 290 for making a windowing book binding pocket attachment. Fig. 16A pocket 290 is the assembled figure with hinge 1 forming between opposing edges of the book binding pocket.

In Fig. 17, the orientation panel 300 is formed directly in the back panel of pocket 303, formed as a portion of panel 300. Hinged binding strip 301 would be used to retain the assembly to a host.